

IN THE CLAIMS:

Please cancel claims 1, 3, 6-12, 15, 23-25, 27, 32 and 34-37 without prejudice or disclaimer of the subject matter thereof, and please rewrite claims 16-22 and 33 in independent form as shown below.

Claim 1 (canceled)

2. (previously presented) A liquid crystal display apparatus comprising:
a light conductor plate;

a light source arranged on a side surface of said light conductor plate so as to light a liquid crystal cell from a side of a back surface; and

said light conductor plate having an incident surface for a light from the light source, a light emitting surface for emitting the input light to the liquid crystal cell, and a plurality of dots constituting by small projecting portions or small recess portions for changing a moving direction of the light from the incident surface toward a direction of the light emitting surface provided on a surface opposite to the light emitting surface, each of said dots having an area within a range of 0.01 to 0.0001 square mm and an angle of inclination of a cross section thereof is within a range of 7 to 43 degrees.

Claim 3 (canceled)

Claims 4 and 5 (previously canceled)

Claims 6-12 (canceled)

Claims 13 and 14 (previously canceled)

Claim 15 (canceled)

16. (currently amended) A liquid crystal display apparatus ~~as claimed in claim 1,~~ comprising:

a light conductor plate;

a light source arranged on a side surface of said light conductor plate so as to light a liquid crystal cell from a side of a back surface; and

said light conductor plate having an incident surface for a light from the light source, a light emitting surface for emitting the input light to the liquid crystal cell, and a plurality of dots constituting by small projecting portions or small recess portions for changing a moving direction of the light from the incident surface toward a direction of the light emitting surface, each of said dots having an area within a range of 0.01 to 0.0001 square mm and an angle of inclination of a cross section thereof is within a range of 7 to 43 degrees;

wherein a reflecting film is formed on a surface forming the dots constituting by the small projecting portions or the small recess portions in said light conductor plate.

17. (currently amended) A liquid crystal display apparatus ~~as claimed in claim 1,~~ comprising:

a light conductor plate;

a light source arranged on a side surface of said light conductor plate so as to light a liquid crystal cell from a side of a back surface; and

said light conductor plate having an incident surface for a light from the light source, a light emitting surface for emitting the input light to the liquid crystal cell, and a plurality of dots constituting by small projecting portions or small recess portions for changing a moving direction of the light from the incident surface toward a direction of the light emitting surface, each of said dots having an area within a range of 0.01 to 0.0001 square mm and an angle of inclination of a cross section thereof is within a range of 7 to 43 degrees;

wherein the small projecting portions or the small recess portions in said light conductor plate are arranged at random.

18. (currently amended) A liquid crystal display apparatus as claimed in ~~claim 1, comprising:~~

a light conductor plate;

a light source arranged on a side surface of said light conductor plate so as to light a liquid crystal cell from a side of a back surface; and

said light conductor plate having an incident surface for a light from the light source, a light emitting surface for emitting the input light to the liquid crystal cell, and a plurality of dots constituting by small projecting portions or small recess portions for changing a moving direction of the light from the incident surface toward a direction of the light emitting surface, each of said dots having an area within a range of 0.01 to 0.0001 square mm and an angle of inclination of a cross section thereof is within a range of 7 to 43 degrees;

wherein an angle of incline in cross section of the dots constituting by the small projecting portions or the small recess portions in said light conductor plate is changed from a portion near the light source toward a portion apart from the light source, and an angle thereof is substantially smaller at the portion near the light source.

19. (currently amended) A liquid crystal display apparatus as claimed in ~~claim 1, comprising:~~

a light conductor plate;

a light source arranged on a side surface of said light conductor plate so as to light a liquid crystal cell from a side of a back surface; and

said light conductor plate having an incident surface for a light from the light source, a light emitting surface for emitting the input light to the liquid crystal cell, and a plurality of dots constituting by small projecting portions or small recess portions for changing a moving direction of the light from the incident surface toward a direction

of the light emitting surface, each of said dots having an area within a range of 0.01 to 0.0001 square mm and an angle of inclination of a cross section thereof is within a range of 7 to 43 degrees;

wherein an angle of incline in cross section of the dots constituting by the small projecting portions or the small recess portions in said light conductor plate is changed from a portion near the light source toward a portion apart from the light source, an angle thereof is substantially smaller at the portion near the light source, and when sectioning the dot forming surface of the light conductor plate by a regular square of 1 to 4 square cm, an average of an angle of incline of a cross section within a regular square closest to the light source is 0.5 to 15 degrees different from an average of an angle of incline of a cross section within a regular square most apart from the light source.

20. (currently amended) A liquid crystal display apparatus ~~as claimed in claim 1,~~ comprising:

a light conductor plate;

a light source arranged on a side surface of said light conductor plate so as to light a liquid crystal cell from a side of a back surface; and

said light conductor plate having an incident surface for a light from the light source, a light emitting surface for emitting the input light to the liquid crystal cell, and a plurality of dots constituting by small projecting portions or small recess portions for changing a moving direction of the light from the incident surface toward a direction of the light emitting surface, each of said dots having an area within a range of 0.01 to 0.0001 square mm and an angle of inclination of a cross section thereof is within a range of 7 to 43 degrees;

wherein when sectioning the dot forming surface of said light conductor plate by a regular square of 1 to 4 square cm, an angle of incline of a cross section of the dots constituted by the small projecting portions or the small recess portions existing

within said regular square is changed at every dots or every dot portions within one dot.

21. (currently amended) A liquid crystal display apparatus ~~as claimed in claim 1,~~ comprising:

a light conductor plate;

a light source arranged on a side surface of said light conductor plate so as to light a liquid crystal cell from a side of a back surface; and

said light conductor plate having an incident surface for a light from the light source, a light emitting surface for emitting the input light to the liquid crystal cell, and a plurality of dots constituting by small projecting portions or small recess portions for changing a moving direction of the light from the incident surface toward a direction of the light emitting surface, each of said dots having an area within a range of 0.01 to 0.0001 square mm and an angle of inclination of a cross section thereof is within a range of 7 to 43 degrees;

wherein when sectioning the dot forming surface of said light conductor plate by a regular square of 1 to 4 square cm, an angle of incline of a cross section of the dots constituted by the small projecting portions or the small recess portions existing within said regular square is changed at every dots or every dot portions within one dot, within a range between averages ± 2 and 15 degrees within said regular square.

22. (currently amended) A liquid crystal display apparatus ~~as claimed in claim 1,~~ comprising:

a light conductor plate;

a light source arranged on a side surface of said light conductor plate so as to light a liquid crystal cell from a side of a back surface; and

said light conductor plate having an incident surface for a light from the light source, a light emitting surface for emitting the input light to the liquid crystal cell, and

a plurality of dots constituting by small projecting portions or small recess portions for changing a moving direction of the light from the incident surface toward a direction of the light emitting surface, each of said dots having an area within a range of 0.01 to 0.0001 square mm and an angle of inclination of a cross section thereof is within a range of 7 to 43 degrees;

wherein a width of the dots constituted by the small projecting portions or the small recess portions in said light conductor plate, that is, a length of the dots in a direction perpendicular to the light source is changed from a portion near the light source toward a portion apart from the light source, and the width is substantially great in the portion near the light source.

Claims 23-25 (canceled)

Claim 26 (previously canceled)

Claim 27 (canceled)

Claims 28-31 (previously canceled)

Claim 32 (canceled)

33. (currently amended) A liquid crystal display apparatus ~~as claimed in claim 32, comprising:~~

a light conductor plate;

a light source arranged on a light-source side surface of the light conductor plate;

a liquid crystal cell arranged on a light emitting side of the light conductor plate;

a diffusion plate and at least one light condensing plate arranged between the light conductor plate and the liquid crystal cell so as to enable lightening of the liquid crystal cell from the light emitting side of the light conductor plate; and

the light conductor plate having light from the light source incident upon the light-source side surface thereof, a light emitting surface for emitting input light to the liquid crystal cell, and a plurality of dots constituted by small projecting portions or small recess portions for changing a moving direction of the light from the light-source side surface toward a direction of the light emitting surface, each of the dots having an area which is within a range of 0.01 to 0.0001 square mm and an angle of inclination of a cross section thereof which is within a range of 7 to 43 degrees;

wherein the plurality of dots are provided on a surface opposite to the light emitting surface.

Claims 34-37 (canceled)